

Appl. No. 10/714,036
Reply to Office Action mailed May 18, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (currently amended) A method of translating speech and delivering it to a communications device, comprising the steps of:

receiving a request from a first communications device for speech translation services at a server device running a speech translation application, wherein the speech translation application includes a plurality of translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries;

retrieving a first voice input signal associated with the request from a first communication path;

detecting a first topic based on the voice input signal by matching words in the input signal to nodes in an ontological database;

associating at least a first one of the translation dictionaries with the input signal based on the detected topic;

translating the voice input signal from a source language to a target language message using said speech translation application and the first one of the translation dictionaries; and

sending the target language message to a second communications device using a second communication path, at least a portion of said target language message being revealed audibly via a second device speaker or visibly on a display of said second device.

2. (original) The method of claim 1, wherein the first communication path is established on a wireless communication network.

3. (original) The method of claim 1 wherein a source language or a target language is automatically determined based on said received request.

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4. (currently amended) The method of claim 1 including the further steps of receiving a second voice input signal, detecting a second topic based on the second voice input signal, and associating at least a second one of the translation dictionaries with the second input signal based on the detected second topic. ~~wherein said speech translation application includes a plurality of first type translation dictionaries including at least one core language dictionary and a plurality of sub language dictionaries.~~

5. (original) The method of claim 1 wherein said speech translation application includes a dictionary search component capable of searching a resource for at least one second-type translation dictionary.

6. (original) The method of claim 1 wherein the request received includes user specific identification information.

7. (original) The method of claim 6, wherein the user specific identification information is used to retrieve user specific files to process the request for speech translation services.

8. (original) The method of claim 1, wherein the request received from the wireless communication device includes device specific identification information.

9. (original) The method of claim 8, wherein the device specific identification information is used to retrieve user specific files to process the request for speech translation services.

10. (currently amended) A wireless communication system providing speech translation services, comprising:

a wireless communication device providing voice input for speech translation processing on a first communication path, said device also providing sending and receiving party information; and

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a server device running a speech translation application receiving voice input from said wireless communication device on said first communication path wherein the speech translation application includes a plurality of translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries, converting the received voice input into a text file, detecting a first topic based on the text file by matching words in the text file to nodes in an ontological database, associating at least a first one of the translation dictionaries with the text file based on the detected topic, translating the text file based on determining a language pair from at least one of said sending and receiving party information and the associated first one of the translation dictionaries, and sending the translated information to a remote device using a second communication path.

11. (currently amended) A system for facilitating translation of a communication from or to a remote communication device, comprising:

a wireless communication device capable of:

receiving a translated message; and
displaying the translated message on a visual display of the wireless communication device; and

a translation apparatus capable of:

receiving a first message for translation from a first user, said first message including sending and receiving party information and a speech element;
searching a message translation database using at least one of the sending and receiving party identification information to determine a language pair;
providing a speech translation application having access to a plurality of translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries;
detecting a first topic based on matching words in the received speech element to nodes in an ontological database;
associating at least a first one of the translation dictionaries with the received speech element based on the detected topic
~~in response to determining said language pair~~, translating said message speech

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element from a first language of said language pair to a second language of said language pair using the determined language pair and the first one of the translation dictionaries; and communicating at least a portion of said translated message to said wireless communication device.

12. (original) The system of claim 11 wherein the translation apparatus searches at least one translation dictionary based on said received message.

13. (original) The system of claim 11 wherein said first and second languages of said language pair automatically determined based on said received message.

14. (currently amended) The system of claim 11 wherein said translation apparatus is further capable of receiving a second message, detecting a second topic based on the second message, and associating at least a second one of the translation dictionaries with the second message based on the detected second topic. ~~includes a plurality of first-type translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries.~~

15. (original) The system of claim 11 wherein said translation apparatus includes a dictionary search component capable of searching a resource for at least one second-type translation dictionary.

16. (original) The system of claim 11 wherein said user is a mobile subscriber.

17. (original) The system of claim 11 wherein said user is a network operator.

18. (original) The method of claim 11 wherein said translation apparatus accesses a specialized dictionary of said language pair based on said sending and receiving party information.

19. (currently amended) The system of claim 11 wherein said translation apparatus can detect a

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plurality of topics in a received message, including identify new topics and identifying the recurrence of a previously identified topic accesses a specialized dictionary based on a determined context of said message.

20. (original) The system of claim 11 wherein said received message includes device specific identification information.

21. (original) The system of claim 20 wherein said device specific identification information is used to retrieve sender or receiver specific files to translate said message speech element.

22. (currently amended) A system for facilitating translation of a communication from or to a remote communication device, comprising:

a wireless communication device capable of:

receiving a translated message; and

revealing the translated message via a speaker of the wireless communication device; and

a translation apparatus capable of:

receiving a first message for translation from a first user, said first message

including sending and receiving party information and a speech element;

searching a message translation database using at least one of the sending and

receiving party identification information to determine a language pair;

providing a speech translation application having access to a plurality of

translation dictionaries including at least one core language dictionary and a

plurality of sub-language dictionaries;

detecting a first topic based on the received speech element of the first message

without using statistical topic detection;

associating at least a first one of the translation dictionaries with the received

speech element based on the detected topic;

in response to determining said language pair, translating said message speech

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element from a first language of said language pair to a second language of said language pair using the determined language pair and the first one of the translation dictionaries; and
communicating at least a portion of said translated message to said wireless communication device.

23. (currently amended) A method of translating speech and delivering it to a wireless communications device, comprising the steps of:

receiving spoken input from a first wireless communications device at a server device running a translation application wherein the translation application includes a plurality of translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries;

receiving a signal associated with said spoken input, said signal corresponding to either a display selection from an interface display on said first wireless communications device or a spoken input received by said first wireless communications device, said signal indicative of a translation request;

translating the spoken input from a source language to a target language using said speech translation application so as to construct a translated message, said source language and said target language being determined by input received by said first wireless communications device, and with the step of translating the spoken input including the steps of detecting a first topic based on the received spoken input without using statistical topic detection, associating at least a first one of the translation dictionaries with the received spoken input based on the detected topic, and using the first one of the translation dictionaries to translate the spoken input; and

communicating the translated message to a second wireless communications device, at least a portion of said translated message being revealed audibly via a second device speaker or visibly on a display of said second device.

24. (original) The method of claim 23 wherein said input for determining said source and target language includes a selection by a user of said first device of source and target languages from a

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display on said first device display.

25. (original) The method of claim 23 wherein said input for determining said source language is sending party information and said input for determining said target language is receiving party information.

26. (original) The method of claim 25 wherein said receiving party information is a short code.

27. (currently amended) A method of translating speech and delivering it to a wireless communications device, comprising the steps of:

receiving spoken input from a first wireless communications device at a server device running a translation application wherein the translation application includes a plurality of translation dictionaries including at least one core language dictionary and a plurality of sub-language dictionaries;

receiving a signal associated with said spoken input at said server device, said signal corresponding to either a display selection from an interface display on said first wireless communications device or a spoken input received by said first wireless communications device, said signal indicative of a translation request;

translating the spoken input from a source language to a target language using said speech translation application so as to construct a translated message, said speech translation application using at least a core dictionary associated with said source language and said target language, and with the step of translating the spoken input including the steps of detecting a first topic based on the received spoken input without using statistical topic detection, associating at least a first one of the translation dictionaries with the received spoken input based on the detected topic, and using the first one of the translation dictionaries to translate the spoken input; and

communicating the translated message to a second wireless communications device.